

dib. 1 N(XB) 62 1) E(XB) = E(X(XX)X/Y) X(XX)XYV(Y X (XX) XXX XIB car(xB)=car(x(x'x)x'y) - X(X/X)X/CON(Y)X(X/X)X/ = X X X X 6 I X (X X) 1/ - 6 X(XX) X X (XXX) X 62 X(X/X)1X/ (0) ~ N(XB 1 & 2) mg = XgB - N(XgB) 62xg(XX) xg) (B~N(B) 622 (XX)-1) DY - Y = N(X/B-X/B) 6, +63) 1 Since ig and ys one independent & Ty N (10, 62 + 6 x) (x) >> Yg and Yy are indépendent, /3 - /8 - NO, 6° (1+ x/2 (XX) x/8 =) Var(lg) -641 + x (1 x x) 7 /2)